

**2.6 Investigate**  
**Where in Your Classroom**  
**Can You Find Bacteria?**

Name \_\_\_\_\_

Hour \_\_\_\_\_ Date \_\_\_\_\_

Read the introduction at the top of p. 45.

How will you be acting like a microbiologist in this section?



**Sample Procedure for Growing Bacteria**

Read p. 45-46. Follow your teacher's instructions for setting up this investigation.

**Plan Your Investigation**

Read pgs. 47 through the top of 49. Complete the attached experiment pages.

**Run Your Experiment**

Follow your teacher's instructions for carrying out your procedure.

**Analyze Your Data**

1. Which area(s) that you tested had the most bacteria? What evidence do you have support your claim?
  
  
  
  
  
  
  
  
  
  
2. Which area(s) that you tested had the least bacteria? What evidence do you have to support your claim?
  
  
  
  
  
  
  
  
  
  
3. How did the results of your investigation compare with your prediction? Suggest reasons for any differences. If your results surprised you, tell why.
  
  
  
  
  
  
  
  
  
  
4. Make a claim about the bacteria on the surfaces you tested. Your claim should answer the research question your class developed. Support your claim with evidence from your investigation.



### Reflect

1. How reliable are your results? Support your answer with evidence.
2. What are some of the sources of error that you may have introduced? For example, did all the colonies of bacteria that grew on the agar come from the area tested?
3. In the next section, you will be planning and running your own investigation. What have you learned in this section that will help you design your investigation? What will you need to pay particular attention to in designing your investigation?



### What's The Point?

How does this activity relate back to the *Big Question*?

